

MA4198 PROJECT PROPOSAL (PROJECT CUM SEMINAR GROUP)

SUPERVISOR'S INFO

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TITLE

The Mathematics of Symmetries

BRIEF DESCRIPTION OF PROJECT

The goal would be to go through the book "Symmetry" by Hermann Weyl. This is a basic book intended to introduce the student to the beauty and the usefulness of symmetries in mathematics and the natural sciences, and how to understand them systematically. Interested students can have the opportunity branch out into specific subtopics or related material.

EXPECTATION/S

Read and understand together as a group the book "Symmetry" by Hermann Weyl, and to be able to explain the main ideas to each other and to the supervisor.

PREREQUISITE/S (at level 3000 or below, with at most one course at level 3000)

MA2001 Linear Algebra I, MA2101 Linear Algebra II should be good enough.

READING REFERENCE/S

"Symmetry" by Hermann Weyl, Princeton University Press